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- (71) Applicant (for all designated States except US): CY-TOKINETICS, INC. [US/US]: 280 East Grand Avenue. South San Francisco. CA 94080 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BERAUD, Christophe [FR/US]: 83 Scotia Avenue, San Francisco, CA 94124 (US). CRAVEN, Andrew [US/US]: 1316 10th Avenue, San Francisco, CA 94102 (US). YU, Ming [CN/US]: 1339 Marlin Avenue, Foster City, CA 94044 (US). SAKOWICZ, Roman [PL/US]: 1119 Nimitz Lane, Foster City, CA 94404 (US). PATEL, Umesh, A. [GB/GB]: 74 Winfold Road, Waterbeach. Cambridge, Cambridgeshire CB5 9QF (GB). DAVIES, Katherine, A. [GB/GB]: Baytree Cottage, 1 Apthorpe Street, Fulbourn, Cambridge CB1 5EY (GB).

- (74) Agents: LIEBESCHUETZ, Joe et al.: Townsend and Townsend and Crew LLP. 2 Embarcadero Center. 8th Floor. San Francisco. CA 94111 (US).
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INTERNATIONAL SEARCH REPORT

3:

International application No.

PCT/US01/19308

A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : C07H 21/04; C07K 14/00; C12N 9/12, 15/63, 15/85; 15/86; C12Q 1/00, 1/42 US CL : 435/4, 21, 194, 320.1, 325; 530/350; 536/23.5				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/4, 21, 194, 320.1, 325; 530/350; 536/23.5				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN - MEDICINE: HsKif17, kinesin, micronibule-stimulated ATPase, motor domain, inhibitor.				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
Х	SAKOWICZ, R, et al. A marine natural product inhibitor of kinesin motors. Science, 10 April 1998, Vol. 280, pp. 292-295; see entire document.		17	
Y Y			14-17	
х	TUCKER, C, et al. Probing the kinesin-micronubule interaction. Journal of Biological Chemistry, 04 April 1997, Vol. 272, No. 14, pp. 9481-9488; see entire document.		17	
Y	14-17			
A	HIROKAWA, N. Kinesin and dynein superfamily proteins and the mechanism of organelle transport. Science, 23 January 1998, Vol. 279, pp. 519-526.		1-18	
х	DATABASE GenBank, Accession No. BG420786, Unpublished, NIH-MGC		18	
Y	http://mgc.nci.hih.gov/. 1999; polymucleotide sequence comprises a sequence that is greater than 60% identical to SEQ ID NO: 1.		1, 2, and 4-18	
Х Ү	cloned polymicleotide sequence encodes a kinesin that has an amino acid sequence that is		1, 2, 4, 6, 8, 10, 11, 13, and 18	
			1, 2, and 4-18	
Further documents are listed in the continuation of Box C. See patent family annex.				
"A" document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the applica	laser document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
		"X" document of particular relevance; the ci- considered novel or cannot be considered when the document is taken alone		
	which may throw doubts on priority claim(s) or which is cited to be publication date of another citation or other special reason (as	"Y" documen of particular relevance; the ci considered to involve an inventive step combined with one or more other such	when the document is	
O document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the		
"P" document published prior to the international filing date but later than the "&" priority date claimed		"&" document member of the same patent family		
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Washington, D.C. 20231				
Facsimile No. (703)305-3230 Telephone No. (703) 308-0196				

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/19308

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-16 and 18, drawn to an isolated nucleic acid molecule, an expression vector comprising said nucleic acid molecule, a host cell transfected with said vector, a protein encoded by said nucleic acid molecule, and a method for screening modulators of the protein encoded by said nucleic acid molecule.

Group II, claim(s) 17, drawn to a compound that modulates the protein encoded by said nucleic acid molecule.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of Group I is an isolated nucleic acid molecule.

The special technical feature of Group II is a compound that modulates a protein.

Accordingly, Groups I and II are not linked by the same or corresponding special technical feature so as to form a single general inventive concept. Furthermore, PCT Rules 13.1 and 13.2 do not provide for an invention directed to claims drawn to more than first claimed product, more than the first claimed method for producing the product, or more than the first claimed method for using the product.